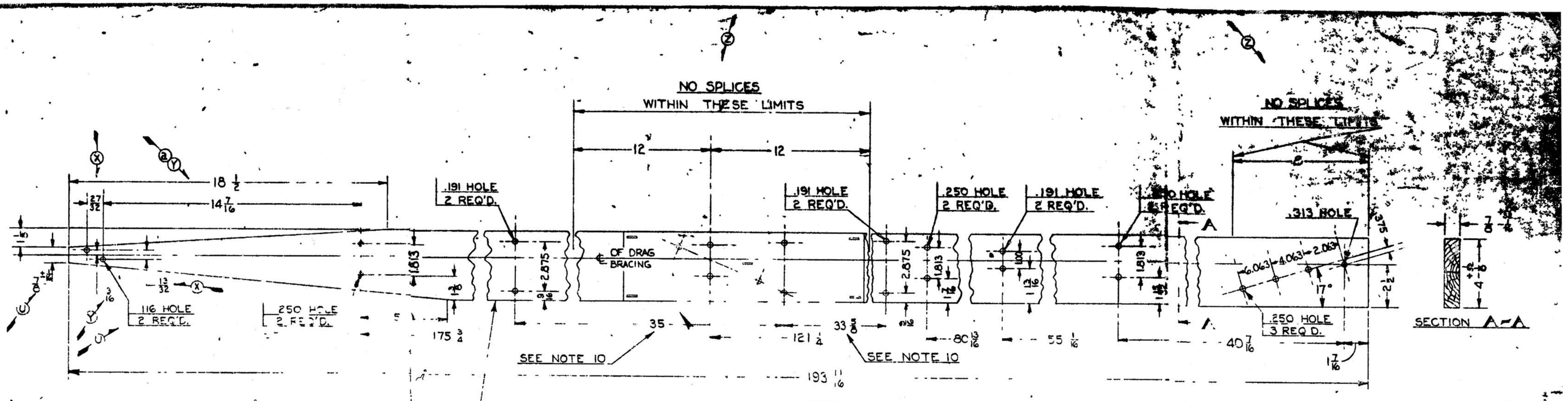
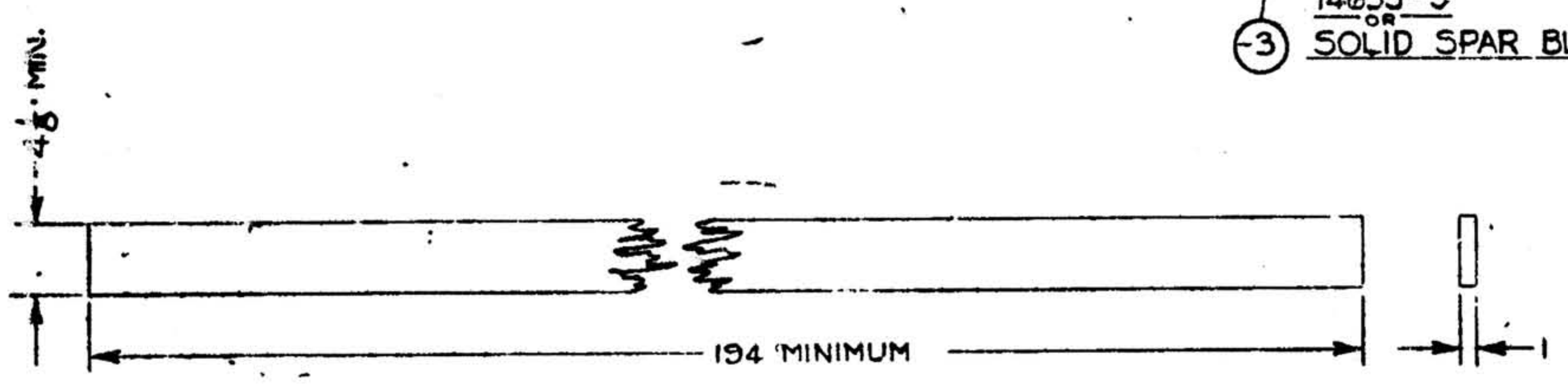
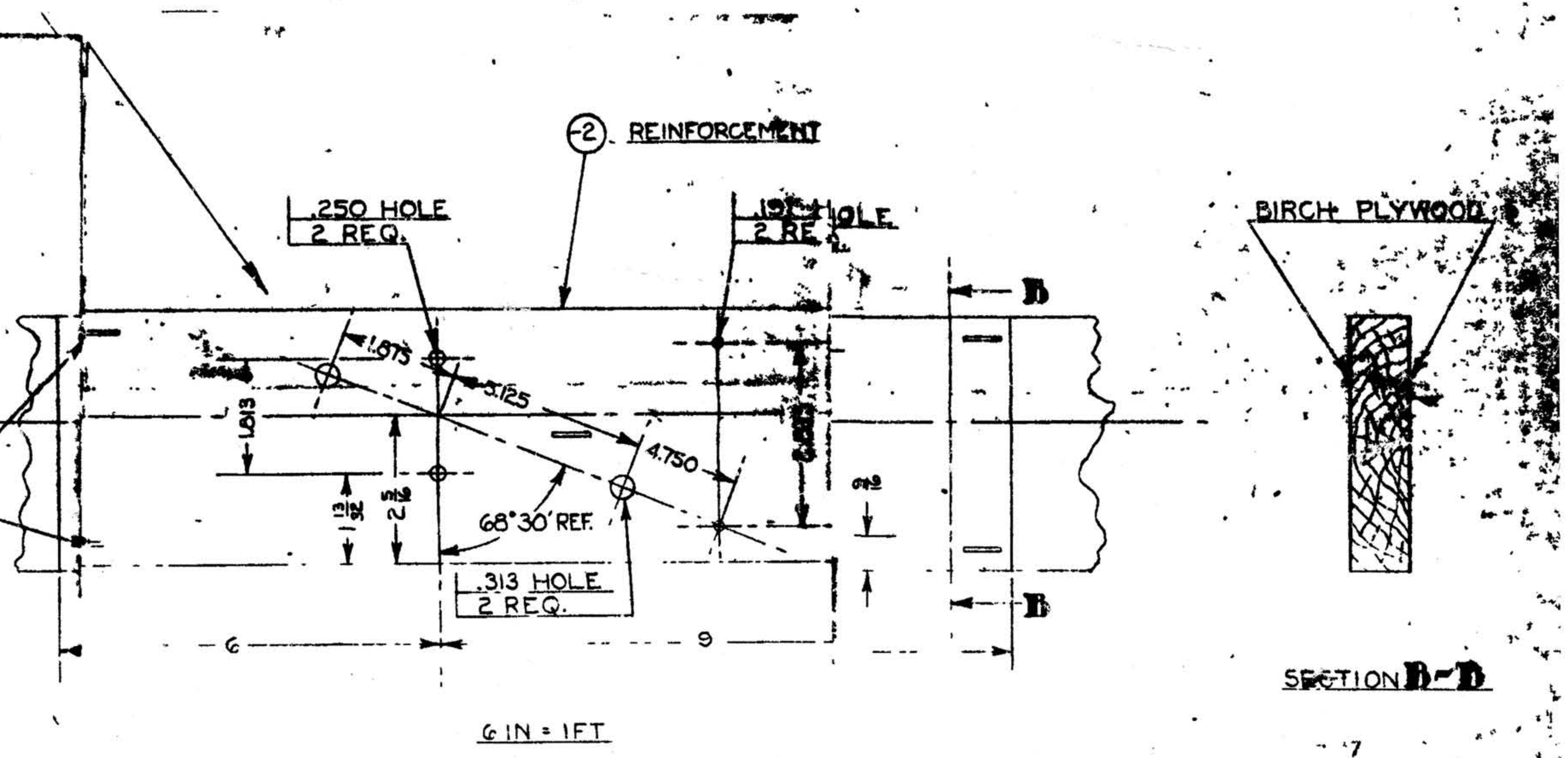




-3 SPAR (BLANK DETAIL)
1 IN. = 1 FT.



6 IN = 1 FT

NOTES·

1. SEE DWG. 12142 OR 14663 FOR LAMINATION DETAILS.
2: SEE DWG 13293 OR 15753 FOR MAJOR SPAR SPLICES.
3: SPARS GIVEN TWO COATS OF CLEAR WOOD LACQUER BEFORE AND ONE COAT AFTER INSTALLING IN WINGS. ADDITIONAL COATS ON EDGES OF LAMINATED SPARS BEFORE ASSEMBLING INTO WING.
4: ALL SPARS USED IN BRITISH EXPORT SHIPS MUST BE OF FULL DIMENSIONS IN BOTH WIDTH & DEPTH. NEGATIVE TOLERANCES SHOWN IN SECTIONS DO NOT APP.
5: GLUE USED MUST BE CASEIN TYPE FEDERAL SPEC. C-G-456 OR PHENOL TYPE RESIN GLUE SPEC #14124.
6: THE ANNUAL GROWTH LAYERS OF THE WOOD MUST MAKE AN ANGLE OF 45° OR MORE WITH THE SPAR FACE FOR AT LEAST 75% OF THE WIDTH OF EITHER VERTICAL FACE MEASURED AT THE ENDS OF THE SPAR.
7: VERTICALLY LAMINATED SPARS SHALL BE FINISHED SO THAT THE LAMINATION THICKNESSES WILL BALANCE ABOUT THE VERTICAL CENTER-LINE OF THE CROSS SECTION, WITHIN 3/32 IN.
8: FITTING HOLES TO COINCIDE WITH RELATED HOLES IN MATING PARTS.
9: HOLE DIA. TOLERANCE $^{+.001}_{-.010}$
10: AILERON HINGE BRACKET ATTACH HOLE CENTERS MUST COINCIDE WITH CENTERS OF RELATED PARTS ON 30C4 & 42565.

PARTS MARKED THUS △ ALSO ON DWG. 13833 (J3; L-4A) & 16433 (J3).
PARTS MARKED ☐ ON 16433 (J3)

DEC 7 1970

15753	DWG REF ONLY		SOLID SPAR MAJOR SPLIC	
13293	DWG REF ONLY		SPAR MAJOR SPLICE WITH	
	10		⅜ CHISEL POINT BOSTICH STA	
14663-3 OR 12142-3 OR			REAR SPAR (BLANK)	
△ -3	1	1 × 4⅛ × 194		YELLOW POPLAR AN-P-?? OR WESTERN HEMLOCK AN- ~~SITKA SPRUCE AN-S-6;~~ OR PORT ORFORD CEDAR AN-C-72; OR WEST COAST DOUGLAS FIR-AN-F- NOBLE FIR AN-F-6
-2	[illegible]	1/16 × 4 × 15		BIRCH PLYWOOD
PART No.	NO. REQ.	SIZE	DESCRIPTION	MATERIAL

LIMITS, SHOP PR[illegible]
UNLESS OTHERWISE NOTED, TO BE IN
ACCORDANCE WITH [illegible] SPECIFICA-
TIONS #9 AND [illegible]

c	REDRAWN WITHOUT CHANGE	10-10-44	R.D.R.					
b	NOTE 5 REVISED	9-19-44	L.D.B.					
a	14 7/16 WAS 14 ½	1-20-44	C.H.S.					
Z	NOTES REVISED -	1-11-44	A.I.N.	TG-8	2	13004		
Y	14½ WAS 14 [illegible]; 3/16 DIM. ADDED	11-26-43	C.E.K.	L-4B	2	13004		
X	13/32 WAS [illegible]; 27/32 WAS ⅞	11-26-43	C.E.K.	L-4A	2	13004		
W	WEIGHT ADDED	11-10-43	L.R.	J3	2	13004		
V	NOTE 2 REVISED	9-2-43	R.R.F.	MODEL	PER SHIP	NEXT ASSEMBLY	SUPERSEDES	SUP. BY
U	[illegible] WAS [illegible]; .166 HOLE ADDED	[illegible]	[illegible]					
T	REDRAWN & REVISED	[illegible]	[illegible]					
LET.	REVISION	DATE	BY					

SCALE 3 IN. = 1 FT. & NOTED
TOTAL WT.
FINISH

SPAR ASSEMBLY - REAR

PIPER AIRCRAFT CORP.
LOCK HAVEN, PENNA.

DRAWN	CHECKED	APPROVED
CROWLEY 2-26-43	L.E.K. 3-7-43	

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